

**ABSTRACT:**

Please add an abstract as follows:

A method for producing a powder of a Cu(In,Ga)Se<sub>2</sub> compound, including the following steps: Cu and In and/or Cu and Ga are alloyed to form a CuIn and/or CuGa alloy with a substoichiometric content of Cu; producing a powder of the CuIn and/or CuG alloy; Se and either KI or NaI are added to the powder, the mixture is heated until a melted mass is formed, in which the Cu(In,Ga)Se<sub>2</sub> compound recrystallizes, and the powder grains to be produced simultaneously grow; and the melted mass is cooled in order to interrupt the growth of the grains. The invention also relates to a monograin membrane solar cell containing a back contact, a monograin membrane containing a powder produced by the inventive method, at least one semiconductor layer, and a front contact.